

LOW LOSS COAXIAL CABLE + FOIL & BRAID

Flexible Low Loss Coax Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- Cable Group G1 (RG-58/RG-142)






Calculate Attenuation = $(0.356859) \times \sqrt{\text{FMHz}} + (0.000470) \times \text{FMHz}$ (Cable Performance Calculators: online pc: www.timesmicrowave.com/calculator/ smart device: www.timesmicrowave.com/mobile/)

Attenuation: VSWR=1.0 ; Ambient = +25°C (77°F)

Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

Attenuation at 20°C / 68°F												
@ MHz	30	50	150	220	450	900	1500	1800	2000	2500	5800	8000
dB/100m	6,5	8,4	14,6	17,7	25,5	36,5	47,7	52,5	55,4	62,4	98,1	117,1
dB/100ft	2,0	2,5	4,4	5,4	7,8	11,1	14,5	16	16,9	19	29,9	35,7
kW	0,89	0,68	0,39	0,32	0,22	0,16	0,12	0,11	0,10	0,09	0,06	0,04

CONSTRUCTION	METRIC	IMPERIAL	MATERIAL
Jacket	Ø 4,95 mm	Ø 0 3/16"	LMR-195 Outdoor PE Black LMR-195-DB Outdoor/Watertight PE Black LMR-195-FR Indoor/Outdoor Riser CMR FRPE Black LMR-195-FR-W Indoor/Outdoor Riser CMR FRPE White LMR-195-FR-PVC Indoor/Outdoor Riser CMR FRPVC Black LMR-195-MA Mobile Antennas PVC Black LMR-195-PVC General Purpose PVC Black LMR-195-PVC-W General Purpose PVC White
Overall Braid	Ø 3,53 mm	Ø 0 9/64"	Tinned Copper
Outer Conductor	Ø 2,95 mm	Ø 0 7/64"	Aluminium Tape
Dielectric	Ø 2,79 mm	Ø 0 7/64"	Foam PE
Inner Conductor	Ø 0,94 mm	Ø 0 1/32"	Solid BC

ELECTRICAL DATA			MECHANICAL DATA		
Time Delay	4,17 nS/m	1,27 nS/ft	Bend Radius: Single	12,7 mm	0 1/2"
Capacitance	83,3 pF/m	25,4 pF/ft	Bend Radius: Repeated	50,8 mm	2"
Inductance	0,21 µH/m	0,064 µH/ft	Bending Moment	0,271 N·m	0,2 ft·lbf
Impedance	50 Ohm (Ω)		Weight	30 g/m	0,32 oz/ft
Velocity of Propagation	75%		Tensile Strength	18,2 kg	40 lb
Dielectric Constant	1,56		Flat Plate Crush	0,27 kg/mm	15 lb/in
Shielding Effectiveness	> 90 dB		ENVIRONMENTAL DATA		
DC Resistance Inner ...	24,9 Ω/km	7,6 Ω/1000ft	Operating Temp.	-40/+85°C	-40/+185°F
... Outer Conductor	16,1 Ω/km	4,9 Ω/1000ft	Standards	MIL-C-17 (current issue)	
Voltage Withstand	1 000 V DC		  		
Jacket Spark	3 000 V RMS				
Peak Power	2,5 kW				